

Specification of generator set



Power Your Imagination

Shandong Superwatt Power Equipment Co., Ltd





Specification of genset

Model: SML1925X

Main parameters

Prime power: 1400kW/1750kVA

Standby power: 1540kW/1925kVA

• Frequency: 60Hz

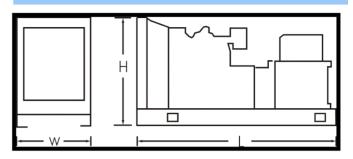
• Rated speed: 1800r/min

Rated Voltage: 480/277V

• Factor: 0.8

Start mode: DC24V/electrical start

Size and Weight



Size Weight L×W×H (mm) (Kg)

• Open type: 5300*2200*2700 11500

• Silent type: 40'Container 18500

Operation conditions

Operation temp: ≤40°C

● altitude: ≤ 1000 米

• Humidity: ≤60%

Note:

- 1. When the ambient temperature is higher than 40°C or the altitude is higher than 1000 meters, the power decreases, which needs to be corrected.
- 2. Excessive humidity requires corresponding measures.

Remark

- Prime Power (PRP): Refers to the unit can run continuously for 24 hours under variable load, allowing
 10% overload every 12 hours for 1 hour.
- Standby power (ESP): at an average load rate of 80%, for no more than 500 hours a year. No overload is allowed.
- Each unit has passed the load test of 0%, 25%, 50%, 75%, 100%, 110% and static, transient response capacity, all protection devices and control systems have passed strict inspection before the factory qualified
- Warranty: one year or 1000 hours from the first startup after commissioning or 18 months from shipment date (whichever comes first).





Specification of engine

Model: 12V4000G14S

Engine parameters

Manufacturer: MTU

Aspiration: Turbocharged

Cooling: Water-cooling

• No. of cylinder/arrangement: 12/Vangle

90°

Displacement: 57.2L

Bore: 170mm

Stroke: 210mm

Compression Ratio: 16.5: 1

Rated speed: 1800r/min

Prime/Stand power:1520/1672kW

Dry weight: 6200Kg

Governor: Electronic Control

Fuel System

Fuel consumption(be):

100%prime power:197g/kWh

75%prime power: 200g/kWh

• 50%prime power:213g/kWh

• 20%prime power:248g/kWh

Exhaust system

Max allowable back pressure: 15kPa

• Exhaust gas flow at: 4.8m³/s

Lubrication system

Capacity: 260L

• Oil pressure at rated speed: 400~500kPa

Air Induction system

Air consumption at: 5kPa

• Maximum Allowable Intake Air Restriction: 2.1m³/s

Cooling system

■Coolant capacity: 397L

• Maximum top tank temperature: 100° C

Starting System

Starer Output: 24V-9.5kW

● Alternator Output: 24V-800A





Specification of alternator

Model: LSA50.2L8

Alternator parameters

Manufacturer: leroy-somer

Rated voltage: 480/277V

Rated frequency: 60Hz

• Power factor: 0.8

Rated power: 1500kW/1875kVA

Insulation class: H

Temp. Rise class: H

Protection: IP23

Ambient temperature: 40℃

Altitude: ≤1000m

Overspeed: ≤2250rpm

Features

• Phases: 3

• Winding pitch: 2/3

No. of Bearing: 1

Connection type: Star

Poles: 4

Waveform Distors. (THD): <5%

• Telephone Interference (THF): <2%



SWT control system-Standard for single unit



Note: the picture is for reference only. The specific model is subject to the formal quotation

Please refer to "SWT parallel system" if sychronising units are required.

Features

- LCD Screen, keys operation
- Multilingual display
- Control and protection functions
- Engine and alternator parameter detection
- Local and remote start
- Reasonable keys layout, friendly interface
- Multiple communication interfaces available
- Event logs
- IP65 overall



Control box (Templet)



Features

- User ID display function
- Parameters can be fully configured through PC software
- □ LED and LCD alarm lamps
- Magnetic sensor speed detection
- ■□□ Work mode selectors (switchable)
- Preset auto start/stop cycle
- Fuel quantity detection, low oil level alarm
- Voltage measurement
- Current measurement
- Generator /mains circuit breaker control
- Plug terminal type wiring design
- Power saving mode
- Switch between generator /mains load
- Upgradeable Firmware

Operation brief

- It is controlled by start, stop, auto and manual buttons on the panel
- The user can set the data of the module through the panel button, or the setting data can be uploaded through the configuration operation software via USB interface

Advantage

- The real-time clock provides accurate event logging
- Provide free PC software license
- Advanced PCB layout ensures high quality of modules
- Modular design, excellent stablility
- Various communication interfaces available





ATS (Auto transfer system) Optional



Function

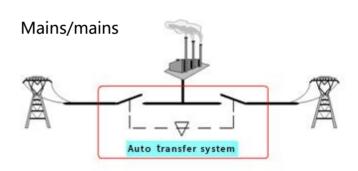
Particular ATS controller, which combines measurement, display, control for the automatic control on mains/mains or mains/ generator system.

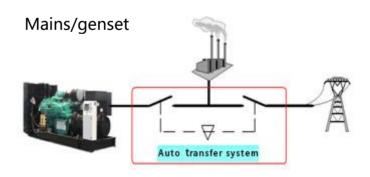
Note: communication function requires extra communication module. The picture is for reference only. The specific model is subject to the quotation

Features

- Microcomputer control, all digital technology
- Display the operating state of ATS and the operation mode of controller directly through the LCD screen
- Operating parameters can be input via the LCD screen and the keys of controller
- Measuring data (including voltage/frequency) through LCD screen
- PC-level switch and electromagnetic driven structure can realize fast on-load switching of two power sources (switching time ≤80ms)
- Electrical and mechanical double interlock
 mechanism, the main loop contact for the two
 static structure, the moving contact using a "V"
 design, from the design to ensure that the two
 power supply will not be shortcircuit.
- Coil control power supply can be provided by the main and standby AC or DC power supply, without additional control power supply

Case









SWT paralleling system (Optional)

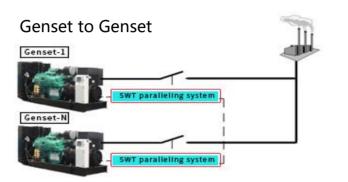
Function

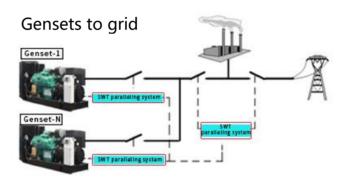
SWT paralleling system is specially designed for gensets & grid system paralleling (set to set or set to grid), up to 32 units synchronise automatically, realize the automatic starting unit automatic parallel operation, and according to the load size the number of units in operation or exit the operation. When mains return to normal, the unit will automatically discharge and cooling down, the system can start paralleling mains grid, automatic transfer and PLC control load can also be customized upon customer requirements, the control of multiple load and multiplex mains SWT paralleling system can also be used with ATS.

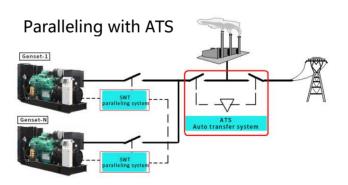
Features

- SWT paralleling system comprises international famous brand controller. PLC system, touch screen etc are available upon customer requests
- Integrated with advanced control technology, perfect function, safe, durability and reliability.
- Smart and flexible, one machine one screen, the unit can be used independently or parallelly
- Easy to operate, fully automatic, Chinese and English operating system, built-in fault detection
- The system can automatically input the appropriate number of units according to the load size to avoid the operation of high-power units with small load and realize the off- peak control
- Easy to expand capacity, just install the required power units, convenient to add units for the expansion in the future.

Case











Accessories list

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Standard accessories



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- Engine
- Alternator
- Chassis
- Control box
- Controller for single unit
- Circuit breaker (up to 1200kW)
- Industrial muffler
- Flange of muffler
- Bellow joint
- Shock absorber
- Base tank (up to 200kW)

- Test report
- Certificate of quality
- Schematic diagram
- Installation manual
- Operation manual

Optional accessories

| Daily fuel tank/bulk fuel tank | | Exhaust pipe | Con | nAp controller |
|---------------------------------------|-----|---------------------------|-----|-------------------|
| Residential silencer | | Hot air discharge duct | | MRS16 |
| Power cable | | RS485 extension module | | AMF25 |
| Anti condensation heater (alternator) | | Ethernet communication | | IG200 |
| battery charger | | Cloud monitor | | IG-NTC |
| | | ATS panel | | IM-NT |
| Water jacket heater | | Motorized circuit breaker | Sma | artgen controller |
| Oil heater | | Synchronizing system | | HGM4010 |
| Fuel level sensor | | Spare parts | | HGM4020 |
| Auto oil make-up device | Dee | psea controller | | HGM6110 |
| Auto fuel filling device | | DSE6020 | | HGM6120 |
| Soundproof enclosure | | DSE7320 | | HGM9510 |
| Containerized enclosure | | DSE8610 | | HGM9520 |
| Trailer | | DSE8620 | | |
| | | DSE8660 | | |

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